

# ICS 208 – BP Incident Management Plan – Site Safety and Health Plan for "Oil Spill Response"

				1.	Project	Objective		
Prepared by:		Dave Piot	trowski			Date	<b>)</b> :	6/11/10 – Day 52
Overall Obje					response			
					of crude oil	I from "Deepwat	ter Horiz	con" well blowout / fire event
		response						
						d recovery activ	/ities	
			ations to	o addr	ess poten	tial impacts		
4. In-situ	burn ope	eration						
						at Time of Inc	ident	
	4/20/10			ector	: GoM			
Business Un		GoM Ex	•					
Name of Fac	ility:					on (drilling rig)		
Location (Ro	ad, City				, MC252 N N, Long 88'	o. 1 (Macondo W	'ell)	
			Lat 20 2	4 12 1	N, LUTIY 66	23 14 W		
Potential Haz	zards (Y	N)-						
	<u>N</u>		avation	s. Tre	nches, an	d/or Confined S	paces	
Υ					rs and Ga		1	Oil, fire, smoke
Υ						ous Material		Oil, fire, sea
Υ						oiratory Concern	ns	Oil
-	N		peratu			,		
Υ			•					Boats, helicopters, personnel
T		Equ	ipment					lifts, ROVs
	N	Othe	ther: Potential H2S exposure from unknown			nown	Well H2S absent	
		Our	re	servo	ir			
A A C .	1 /D	*1 41					<b>A</b> 44	1 10': 14
Crude oil spill f			rea inc	iuain	g approxi	imate dimensio	ons. Att	ached Site Map)
Crude oii spiii i	rom wen r	VIC252 # 1.						
Surrounding	Populat	ion (Y/N):	•					
Υ	<u> </u>	GoM w						
	N	Suburb	oan					
	N	Rural						
•								
Distance to I								
BP Nakika = 10	0 nautical	miles, She	oreline	= 47.6	statute mile	es		
Topography:								
See site specif	ic details o	on Site HSS	SE Plan	S				
Climate/Wea	ther Con	ditions:						
	Preser		I			Anticipated		
Winds	SE 7-1	0				SE 6-9		
Temp. (F)	79					77 degrees F		
,	•						ICS 208 -	- Site Safety and Health Plan Page 2 of 9
Humidity						84%		

15%

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5

% Rain

Seas	1 ft Smooth	1 feet Smooth
Comments		

# 3. Background Information

Background information: (Include date, range of site use, source of contamination, estimated extent of contamination, known and suspected contaminants, etc.)

A 4/20/2010 well blow out and fire on Deepwater Horizon causing oil sheen on surface of GoM waters.

# 4. Entry Objectives

Entry Objectives: (Fully describe the purpose of site visit(s). If multiple visits, indicate the objectives of each entry. The number and types of samples should be included if sampling is to be performed).

The overall objective is to utilize the ICS 208 BP Incident Management Plan - Site Safety and Health Plan. The project-specific response activities (listed below) and objectives will be conducted in accordance with Site-Specific Safety Plans. The safety plans specifically covering these response activities provide more detail on items such as control boundaries, safety procedures, communications, monitoring, potential exposure/mitigation, and emergency procedures. There are three general activities/operations covered by these safety plans:

- 1. On-water oil recovery
- 2. Decontamination
- 3. Shoreline recovery operations
- 4. In-situ burn operation

The following site-specific safety plans listed below will be utilized to address site-specific hazards of the operations. The site-specific safety plans are intended to reduce confusion during field operations. The overall strategy of this structure is three-tiered: Tier 1 is the overall BP Incident Management Plan, Tier 2 is comprised of operation-specific safety plans; Tier 3 plans are conducted in the field and serve as site Job Safety Environmental Analysis (JSEA). Three general activities/operations and corresponding site safety documents:

## 1. Safety and Health Plans (on-water operations):

Oil spill containment and on-water recovery efforts to be conducted by MSRC and NRC oil spill response vessels / barges. On-water oil recovery vessel activities to be coordinated by O'Brien's Oil Pollution Services. The site-specific safety documents for the on-water oil recovery operations are listed below:

- MSRC Dispersant Group Site Safety Plan for Dispersant Staging Airport Operations
- MSRC Response Site Safety Plan (SSP)
- Site Safety Plan for Dispersant Operations (NRC Plan) Note: page header reads-O'Brien's Response Management
- NRC Site Safety Plan (vessels)
- MC 252 Air Monitoring Plan (BP)
- ICS 208 Boating Safety
- ICS 208 Severe Weather Alert

#### 2. Safety and Health Plans (decontamination operations):

The contractors completing the decontamination activities and associated tasks will be Oil Mop, Inc. Decontamination activities to be coordinated by O'Brien's Oil Pollution Services. The site-specific safety documents for the decontamination operations are listed below:

Mississippi Canyon 252 Vessel Evaluation and Decontamination Plan

#### 3. Safety and Health Plans (shoreline recovery operations):

Each individual shoreline clean-up operation, if deemed necessary, will be supervised by MSRC. Shoreline operations to be coordinated by O'Brien's Oil Pollution Services. The site-specific safety documents for the shoreline operations are listed below:

- MSRC Response Site Safety Plan (SSP) Shoreline Cleanup
- ICS 208 MSRC Site Safety and Health Plan
- MSRC Specific Site Safety Plan
- ICS 208 Ralston Shoreline Containment Protection Structures (SSP)
- Tri-State Bird Rescue & Research, Inc. Site Specific Safety and Health Plan (SSSHP)

## 4. Safety and Health Plan (in-situ burn operation):

The in-situ burn operation will be managed by O'Brien's Oil Pollution Services from a MSRC vessel. The site-specific

5. Personnel Roles							
BP Personnel:							
Key Personnel	•			Title / Res	sponsibilities		
Capt Bill Drelling				FOSC – Federal On Scene Commander			
Scott Schaeffer				DOSC - D	eputy Operations Section Chief (BP)		
Phillip Woods				SOSC - St	ate On Scene Coordinator - Alabama		
Richard Harrell				SOSC - St	ate On Scene Coordinator - Mississippi		
Doug White				SOSC - St	ate On Scene Coordinator - Florida		
Don Piotrowski (Da	iys) / Pam Tomm	ne (Nights)		BP IMT Sa	fety Officer (source operations)		
Don Pratt				BP IMT Health and Safety Unit Leader (source operations)			
Roddy Randham				BP IMT He	alth and Safety Unit Leader (source operations)		
Contract Personn	el						
Note: See	Appendix A, Inc	ident Manag	ement T	eam (IMT) / T	actical Response Team (TRT) Organization.		
Codorel America	Donge contati	2001					
Federal Agency	Representativ		^ aana.	,	Dhone		
Name			Agency USCG	'	Phone		
Capt. Bill Drelling  Dean Eulock			EPA				
Clay Jordan			DOI				
Clay Jordan			DOI				
State Agency Re	nresentatives						
Name	presentatives		Agency	Phone			
See Section Chart		- '	rigorioy				
Local Agency Ro	epresentatives						
Name			Agency	/ Phone			
See Section Chart			9-11-7				
		6. Si	ite Sec	urity And	Control		
Security Team L	eader:						
BP:	Neil Cox	•		Phone:			
Contractor:				Phone:			
				-			
Control Bounda	ries:						
Мар:				Sketch attached (Y/N):			
·				0 10/00			
Site: MC252				Secured (Y/N):			
A Cofe manine star	v boo boo:	- ا ا- المام					
A Safe perimeter Surrounding water	re to Horizon ri	abiisned a	ntrolled	l by dodicat	red M/V (USCG)		
	is in unicoli []	y nemy co	ritiOile0	i by dedical	GU IVII V (USUG)		
			ote: See	attached Sit	е Мар.		
Spill Containme			. 0 ::	. 4 -1			
See MSRC and NI	RC Site Safety P	ians listed ii	n Section	n 4 above.			

#### NOTE: Reference the Action Procedure of the site Incident Management Plan (IMP) 7. Hazard Evaluation The following substance(s) are known to be on site. The primary hazards of each are identified. Waste Product Physical State<sup>1</sup> Primary Hazard<sup>3</sup> Characteristics<sup>2</sup> Inhalation Inhalation Natural gas Gas vapor Flammable BP Crude Oil.pdf (124 KB) (443 KB) (100 KB) MSDS adendum0001 Adobe Acrobat Document <sup>1</sup> – Liquid, solid, sludge, gas/vapor, other. <sup>2</sup> - Corrosive, flammable, toxic, volatile, reactive, radioactive, carcinogen, other. <sup>3</sup> – Toxic on inhalation or ingestion, absorbed through skin, irritant to eyes, irritant to respiratory tract, irritant to skin, other. NOTE: See Appendix C for Material Safety Data Sheets (MSDS's) Anticipated concentration and allowable exposure limits Product Anticipated Full-Shift Short-Term **Exposure Limit** Concentration **Exposure Limit** NOTE: Include institution that establishes limit (e.g., OSHA, ACGIH, etc.). Other Site Hazards (Y, N): Hazards below are potentially present in current operations Υ Heat In-Situ Burning N Cold **Confined Spaces** Decon Boats/vessels/helicopter/cranes/ Υ Heavy Equipment fork lifts N Bloodborne Pathogens Poison Ivy Υ Insects: Ν Rodents: Snakes: Other: Other: Other: 8. Personal Protective Equipment Based on evaluation of potential hazards, the following levels of personal protection have been designated for the applicable work areas and tasks. See Health Hazard Information section on MSDS of product in Appendix C. Location Job Function Level of Protection On-water oil recovery vessels Oil skimming Refer to site-safety plans for these activities (Section 4) Decontamination facilities Equip. decon Refer to site-safety plans for these activities (Section 4) Shoreline operations Land cleanup Refer to site-safety plans for these activities (Section 4) On Water In-Situ Burning In-Situ Burning Refer to site-safety plans for these activities (Section 4) NOTE: Air monitoring equipment will be used to determine the need for Level C & higher protection.

PPE – Levels of protection:							
Level A: To be selected when the greatest l	evel of skin, respiratory and eye protection is required.						
evel B: The highest level of respiratory protection is necessary but a lesser level of skin protection is needed.							
evel C: The concentration(s) and type(s) of airborne substance(s) is known and the criteria for using air burifying respirators are met.							
NOTE: See 29 (	protection, used for nuisance contamination only.  CFR 1910.120 Appendix B for more detailed in regard to levels of protection.						
Specific protective equipment for each							
	io to						
Refer to the documents listed in Section 4 for r	more information on specific equipment and level of protection.						
	the specified levels of protection shall be made the On-Scene Commander and Site Safety Officer.						
Identify PPE Equipment Supply Source	the on coone communication and one curety officers						
identity i i E Equipment Supply Source							
Required PPE, safety equipment, and air moni subcontractors) completing work on the achiev	toring equipment to be supplied MSRC, NRC, and/or contractors (and/or rement of the objectives stated in Section 1.						
9 F	nvironmental Monitoring						
A direct reading instrument will be used to monitor LEL of flammable gasses. The instrument will be on while the workers approach the work area, and readings will be taken during the following conditions:							
and normal approach and normal and no							
<ul> <li>Possibility of IDLH or flammable atn</li> </ul>	nosphere has developed.						
<ul> <li>Indication that exposures may have</li> </ul>	risen over limits since prior monitoring.						
Work begins on different portion of	site.						
Different type of operation is initiate	ed.						
- Employees are working in areas wit	h abvieva liquid contemination						
Employees are working in areas wit	n obvious liquid contamination.						
•							
Combustible Cos Monitoring will be							
Combustible Gas Monitoring will be	Refer to site-safety plans for these activities (Section 4)						
conducted by:							
Instrument(s) used will be:							
Calibration Frequency:							
Frequency of Monitoring:							
Location of Monitoring:							
Benzene/Xylene/Toluene monitoring wi	Refer to site-safety plans for these activities (Section 4)						
conducted by:	, , , , , , , , , , , , , , , , , , ,						
Instrument(s) used will be:							
Calibration Frequency:							
Frequency of Monitoring:							
Location of Monitoring:							
Other monitoring will be conducted by:	Refer to site-safety plans for these activities (Section 4)						
Instrument(s) used will be:							
Calibration Frequency:							

NOTE: Monitoring results are attached to this report. **Identify Monitor Equipment Supply Source** Standard equipment provided by MSRC and NRC. 10. On-Site Work Plans Tactical responders will perform the following tasks: 1. On-water oil recovery 2. Decontamination 3. Shoreline recovery operations 4. In-Situ Burning 11. Special Instructions Communicate with Site Safety Officer about any hazards observed not listed in Site Safety Plan. 12. Communication Procedures The following emergency signal indicates that there is an emergency situation: Vessel general alarm (primary) In addition, the following standard hand signals will be used in case of failure of audible communications: **Hand gripping throat** ⇒ Out of air, can't breath **Grip partner's wrist or both** ⇒ Leave area immediately hands around waist Hands on top of head ⇒ Need assistance Thumbs up ⇒ OK, I understand Thumbs down ⇒ No, negative 13. Decontamination Procedures

Personnel and equipment leaving the work area shall be thoroughly decontaminated. Soiled boots and clothing will be removed before entering transport vehicle. Disposable items (e.g. gloves, rags) will be disposed of on-site in a manner consistent with facility operatives. Refer to MSCR Specific Procedures.

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If non-disposable items will be used on-site, then describe decontamination procedure:

# 14. Emergency Procedures

The following standard emergency procedures will be used by on-site personnel. The Site Safety Officer shall be notified of any on-site emergencies and will be responsible for ensuring that the appropriate procedures are followed:

<u>Personnel injury</u> – Upon notification of an injury, the On-Scene Commander and Site Safety Officer will assess the nature of the injury. If the cause of the injury or absence of the injured person does not affect the performance of site personnel, operations may continue, with the On-Scene Commander and Site Safety Officer initiating the appropriate first aid and necessary follow-up as stated above. If the injury increases the risk to others, all site personnel shall be assembled in a given area for further instructions. Activities on site will stop until the added risk is removed or minimized.

<u>Fire/Explosion</u> – Upon notification of a fire or explosion on site, all site personnel will be assembled at the decontamination line. The fire team shall be alerted, and all personnel moved to a safe distance from the involved area.

<u>Personal Protective Equipment Failure</u> – If any worker experiences a failure or alteration of protective equipment that affects the protection factor that person and his/her buddy shall immediately leave the affected area. Reentry shall not be permitted until the equipment has been repaired or replaced.

Other Equipment Failure – If any other equipment on site fails to operate properly, the On-Scene Commander and Site Safety Officer shall be notified and then determine the effect of this failure on continuing operations on site. If the failure affects the safety of personnel or prevents completion of the Incident Action Plan (IAP) tasks, all personnel shall leave the area until the situation is evaluated and appropriate actions taken.

In All Situations, When an On-Site Emergency Results in Evacuation of the Work Area, Personnel Shall Not Re-Enter Until:

- 1. The conditions resulting in the emergency have been corrected.
- 2. The hazards have been reassessed.
- 3. The Site Safety Plan has been reviewed.
- 4. Site personnel have been briefed on any change in the Site Safety Plan.

**Location of the Emergency Exit Route (See Site Map):** 

Follow Vessel Emergency Procedures

**Location of Designated Assembly Area (See Site map):** 

Follow Vessel Emergency Procedures

15.	Site	Safety	Plan
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Site Safety Officer(s): Don Johnson / Tony Repka

The Site Safety Officer is directly responsible for safety recommendations on site. He/she will maintain daily site logs documenting all notable events and/or conditions of health and safety concerns.

Emergency Medical Care: See ICS 206 - Medical Plan

		ualified Medical		nnel are				
		ocated on site (Y						
		there are qualifi	ed Me	dical perso	nnel	located on-	site, then ide	ntify location
	(5	See Site Map):						
		hone Number:						
	R	adio Frequency:	1					
Medical Sur								
		CFR 1910.120 (f)						
		an trained in occu						
		zardous materials						
		nat these employe					le and qualifie	d to work under
conditions d	escribed in	this plan, without	risk to	personal n	eaith	and safety.		
_								_
Emergency	Resource	es:						_
	4 DI				1			
Incident Po	st Phone I		T. Talan			on to the Com	mand Doot	
		NOI				on to the Com		
			onou	a be cetabile	1100 00	Soon as pras		
Site Resour	ces:							
					Y/N	Co	mments	
		Telephone			Υ		tellite/Cell phone	 e
		Radio			Y	VH	· · · · · · · · · · · · · · · · · · ·	<u>*</u>
		Electricity			Ϋ́		•	
			Illumination					
		Sanitation			Y			
		Samanon			'			
		Water Supply			Υ			_
		Water Supply Designated Fi		/CDD On	I			
		Site Provider	ist Ald	CPR On-	Υ			
		Other:						
		Other:						
			*****					
		Local Resour	ces:		Dha	una Niverahar		
		A mala vila maa			PIIC	ne Number		
		Ambulance		Daam				
		Hospital Emer	gency	Room				
		Sheriff						
		Police						
		State Police						_
		Fire Departme						
		Airport/Helico	pter					
		EPA Contact						
		USCG						
		MMS Pipelines						
		NRC						
		MMS New Or				-736-2504		
		NOTE: S	See App	endix B, Eme	ergenc	y Care and Mo	vement of Injure	ed Personnel.
Emergency	Medical II	nformation For S	ubsta	nces Prese	ent:			
		Substance				Exposure	First-Aid	
		Jubalance				Symptoms	i ii St-Alu	

See MSDS attached above		
NOTE: See Appendix C, Health Ha	MSDS's for pro zard Information	

# 16. Training Certification

The Site Safety Officer will ensure that all employees have the appropriate training/certification as per 29 CFR 1910.120.

**HSE Orientation & Training Requirements** 

**Training Hotline: 1-866-647-2338** 

Register for training by e-mail at <a href="mailto:horizonresponse@pecpremier.com">horizonresponse@pecpremier.com</a>

Audience and	Purpose	Course Info.	Pre-
Work Scope			requisites
Volunteers - Non- contaminated beach cleanup  Pre-cleaning of beaches  – pick up trash and debris	Ensure anyone working under BP coordination has an understanding of BP HSE expectations. This training is being delivered at worksites prior to volunteers being deployed.	Module 1 - BP HSE Basic Orientation Instructor led (Approx. 30-45 min.)	None
Contractors - Conducting work on behalf of BP in the field  Any labor/work not involving spill contaminated materials	Provides BP contractors with a basic HSE Safety Orientation and expectations of contractors. This builds on Module 1 with a focus on pre-job safety meetings, job planning, risk identification, and the right to 'stop the job' if things appear unsafe.	Module 2 – Contractor Expectations (Includes Module 1)  Instructor led (Approx. 1.5 hours)	None
Contractors - Post Emergency  Conducting work on behalf of BP cleaning up spill contaminated shoreline and vessel operations during "weathered" oil recovery.	Prepare individuals for the hazards in the contaminated shoreline environment. This is a 4 hour course that meets the recommendations of OSHA CPL 2-2.5.1 for Oil Spill Response-Single Event	Module 3 - Post- Emergency Spilled Oil Cleanup (Includes materials from Modules 1 & 2) Instructor led – 4 Hours	Each work team will have at least one 40-hour supervisor on site or on each vessel to oversee operations.
Contract Supervision of those who will have direct contact with petroleum for shoreline and vessel operations  Direction and management of workers performing spill related cleanup activities	Provides BP contractors with a basic HSE Safety Orientation and expectations of contractors. This builds on Module 1 with a focus on pre-job safety meetings, job planning, risk identification, and the right to 'stop the job' if things appear unsafe.	Module 2 – Contractor Expectations (Includes Module 1)  Instructor led (Approx. 1.5 hours)	40 hour HAZWOPER (Instructor led and hands- on). Contract supervision must certify to BP that 40 hour training is current prior to work beginning. NOT AVAILABLE THROUGH BP

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May 21, 2010

NOTE: See the site Incident Management Plan (IMP) for BP employee training roster.